Piloting a personal financial literacy quiz in Canada

Results of developmental study

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ABSTRACT

The following report describes the design and field test of a 16-item quiz designed to measure personal financial literacy or capability in Canada that enables comparisons to national population and sub-population results. In the next phase of work, a model will be constructed and validated to weight results and construct a 5-scale index of financial capability.

Introduction

Hundreds of non-profit community organizations across Canada deliver financial information, skills training and education on personal finances to their clients, yet many struggle with program evaluation. Evaluation is often an under-funded component of grants and funding agreements. In addition, there are no widely-accepted evaluation indicators for financial literacy, making it time consuming to develop new evaluation tools and limiting the ability of the field to share best practices or contribute evidence to policy-and grant-making.

The Investment Industry Regulatory Organization of Canada (IIROC) has provided funding to Social and Enterprise Development Innovations (SEDI) to help strengthen evaluation of community-based financial literacy programs across Canada. SEDI is a national charitable organization that works to expand economic opportunity for low-income Canadians through program and policy innovation in the areas of asset building, financial literacy and self-employment. In 2008, SEDI launched the Canadian Centre for Financial Literacy (CCFL) to support the capacity of non-profit organizations to offer financial literacy services to vulnerable groups including low-income adults and youth, Aboriginal Canadians, newcomers and persons with disabilities. More information about SEDI and the CCFL is available on their website at www.sedi.org.

IIROC is a national self-regulating body for the investment industry in Canada. Funding for this project has been provided by IIROC out of revenue from fines paid in the enforcement of market conduct standards. More information about IIROC is available on their website at www.iiroc.ca

As part of a larger project to a) build consensus on common evaluation approaches among financial literacy practitionners and funders and b) develop a set of evaluation tools (such as planning guides and data collection forms), SEDI subcontracted with Jennifer Robson to develop and pilot a brief instrument that could be used in front-line financial literacy programs to measure the financial capability of clients.

Background framework to the instrument

Five principles were used to guide the creation of the instrument piloted in this study:

- Empirical methods and approaches are preferred wherever possible.
- The instrument should not be prejudiced by a respondent's income, gender, education or age.
- · Financial outcomes should not be used to measure financial capability.
- Financial capability is a multi-dimensional construct.
- Financial capability is a relative construct.

The developmental framework for the instrument starts with the premise that more empirical methods and indicators are urgently needed to raise the bar on the evaluation of financial literacy programming and to improve the quality of research (descriptive and experimental) on financial literacy generally. Normative approaches can lead to

difficulties in interpreting results and in comparing results between instruments or between evaluators making different normative assumptions.

Normative approaches also are at greater potential risk of skewing results in favor of middle and upper-income respondents. The current study starts from the premise that the indicators should be income neutral, that is they should not, *a priori*, penalize or reward a respondent based on his or her income. Neutrality regarding other demographic characteristics such as gender, age and education are also important considerations in the development of a new instrument.

This same perspective also suggests that a focus on financial outcomes is not likely to be very helpful in assessing financial literacy programs and interventions. Personal financial outcomes such as financial resources (including income and net worth) and financial crisis (such as bankruptcy) are the results of multiple variables where the relationship to financial capability is complex and indirect. Personal endowments or inheritances, market fluctuations or cycles, regulatory frameworks and even chance or luck all play a role in shaping personal financial outcomes. It is illogical and unhelpful to suggest that those with better outcomes must be more capable. Similarly increases in financial knowledge may not necessarily lead to changes in financial practices and, even when practices change, this may not necessarily lead to better outcomes. In fact research suggests that there is a very weak association between financial knowledge and financial behavior.¹

The theoretical framework used in this project draws heavily on work by Elaine Kempson of Bristol University. Ms. Kempson and her colleagues at the Personal Finance Research Centre of the University have described financial capability as a composite trait made up of several domains:

- Managing day to day finances, including making ends meet and keeping track of money
- Choosing financial products and services
- Planning ahead for expected and unexpected financial costs
- Ongoing learning, including staying informed about financial topics and getting assistance or advice with personal finances.²

These domains were developed based on qualitative research in the UK and have since been validated using quantitative methods in a wide number of OECD countries. Here in

¹ Hilgert, M., J. Hogarth and S. Beverly (2003) "Household Financial Management: The Connection between Knowledge and Behavior", Federal Reserve Bulletin 309. Lusardi, A. (2009) "The Importance of Financial Literacy", Research Summary 2, National Bureau of Economic Research.

² See Kempson, E., S. Collard and N. Moore (2005) "Measuring Financial Capability: An exploratory study", published as Consumer Research Paper 37 by the Financial Services Authority, London, UK. Available on-line at:

http://www.bristol.ac.uk/geography/research/pfrc/themes/fincap/measuring-fincap.html

Canada, the domains were also used to inform the design of the Canadian Financial Capability Survey (CFSC) conducted by Statistics Canada in 2009.³

The data from the CFSC offer an unprecedented opportunity in Canada to develop and implement more empirical measures of financial capability that can be used by Canadian practitioners, funders and researchers to describe individual financial capability, to measure changes in individual financial capability that can attributed to a program or intervention and to research the dynamics and factors that shape differences in financial capability. By comparing individual results to population (or sub-population) results, we can benchmark one person's responses to attitudinal, behavioral or knowledge questions to see where they stand compared to other Canadians. Some work has already been done to construct national scales for each of the 5 domains of financial capability⁴. Each scale was developed using factor-analysis, a statistical technique that looks for patterns of relationships between variables (in this case each variable would be the distribution of answers to individual survey questions) and determines whether or not these relate together to some indirectly observed larger variable. It would be difficult or at least impractical to use all of the dozens of questions that are used to construct scales using factor analysis. Instead, the aim is to design a shorter set of questions that might roughly predict a respondent's score on a set of national financial literacy scales.

A final element to the theoretic framework that underpins this project: financial capability is a relative and continuous variable. There is no absolute optimal level of financial capability beyond which no improvement is possible or desirable. Because financial products, services, regulations, needs and circumstances are constantly changing, the financial skills, attitudes and behaviors that demonstrate financial capability will always be relative to the circumstance and will always demand ongoing learning and change. This also means there is no absolute threshold that can differentiate the financially capable person from a financially "incapable" peer. Our individual financial literacy always lies along a continuum. Like measuring other relative traits like height, we measure how tall we are or how much our children grow against population-wide standardized models to compare ourselves to others, models that must be updated from time to time as population-wide norms change. The model of standardized financial capability that can be constructed using the data from the CFSC should be interpreted as a work in progress to be validated and improved on by future large surveys in Canada or abroad. The availability of the population-wide data offers an exciting opportunity to try something new and potentially better in measuring financial capability in Canada.

Research and Development

³ Statistics Canada (2009) *Canadian Financial Capability Survey*, Ottawa. Documentation available online at: http://www23.statcan.gc.ca:81/imdb/p2SV.pl?Function=getSurvey&SDDS=5159&lang=en&db=imdb&adm=8&dis=2

⁴ MacKay, S. (2010) research report to the Task Force on Financial Literacy, Department of Finance, Government of Canada. Available online at: http://publications.gc.ca/site/eng/391788/publication.html.

Piloting a personal financial literacy quiz in Canada

A review of existing financial literacy measurement tools in Canada and internationally informed the design and development of this instrument. These included reviews of other national surveys, a review of a new cross-national survey piloted by the OECD, evaluation surveys and self-assessment quizzes developed by researchers in the US, financial literacy practitionners and even financial media and financial service providers in Canada.⁵

The primary source for question items in the new instrument is the Canadian Financial Capability Survey. This Survey was conducted by Statistics Canada as a telephone survey in 2009 using a complex, stratified sample. Questionnaire items were included based on advice from a design committee⁶, expert peer reviews and a cognitive testing process conducted with participants in 2008 to ensure respondents understood and could respond to the questionnaire items. The results from the survey now make up a dataset of responses to approximately 500 items from more than 15,000 adult Canadians.

To enable comparison with items included in the survey results, a thorough review of the questionnaire was done to identify questions that might be useful for a new instrument. In selecting questions to include in a new instrument, attention was paid to the following considerations:

- 1. Face validity: Does the question address one or more of the domains of financial capability?
- 2. Understandability: Could the question likely be understood and accurately answered by most adult respondents regardless of age, income, gender and education?
- 3. Comprehensiveness: Does the question contribute to a mix of measures of attitudes and behaviors for all the domains in question?
- 4. Predictive value: Does the question likely have a high predictive value, based on existing research?⁷
- 5. Practicality: Can the new instrument be limited to approximately 20 brief items to ensure it is easy to use in applied settings?

⁵ A complete list of these other instruments is available on request.

⁶ In full disclosure, the author was involved in advising on the original research and development proposal for the survey and briefly sat on the federal interdepartmental design committee for the CFCS.

⁷ In the development of this new instrument, the selection of questions was informed by analysis on the Canadian Financial Capability Survey conducted by Dr. Stephen MacKay for the Task Force on Financial Literacy. An archived copy of Dr. MacKay's report is available from the Government of Canada at: http://publications.gc.ca/site/eng/391788/publication.html. Dr. MacKay's report published the results of a factor analysis he conducted on the CSFC data with input from Statistics Canada and advisors at the Task Force Secretariat, including the author. The predictive value of question items refers to the factor loading or factor scores from that report. The author intends to replicate Dr. MacKay's work in 2013.

An initial selection of question items were reviewed by members of the Advisory Group for the project, by representatives of community-based organizations and by two peer reviewers, Dr. Stephen MacKay (Birmingham) and Elaine Kempson (Bristol). Following the reviews, a few questions were eliminated, the order of questions was changed and some question items were grouped to create derived variables. In total the instrument consists of 21 questions of which 5 are re-coded to create more complex variables for a total of 16 items.

In all cases, the wording of questions was revised to make it as simple and easy to understand as possible. This also applied to the responses from the original CFCS wording. In some cases, responses were condensed or regrouped. In other cases, the response type was changed to a simple count (such as the number of different kinds of insurance held by the respondent rather than recording the types themselves).

A copy of the final instrument is attached at Appendix A. It was translated into French using the original translation from the Statistics Canada questionnaire wherever possible and using a Francophone (Quebec) translator and reviewers where wording changes required a new translation.

Purpose of the pilot study

The Canadian Financial Capability Survey (CFCS) questionnaire was designed and validated as an instrument to gather national data through a telephone survey. It surveyed a representative sample of Canadian adults and asked a large number of questions in ways that would be of interest to researchers, policy-makers and other stakeholders. While it offers a robust set of empirical data against which individual results can be compared, it became clear in the research and development phase of this project that using the questions, and responses, exactly as written in the CFCS questionnaire would not be well-suited to an instrument intended for use in community-based settings or even to be used as a self-assessment tool online. In addition to thinking about which questions to use and how to use them, it was also necessary to make changes to wording and the order of the questions. Small wording changes can lead to important changes in the ways people respond to surveys and questionnaires.⁸

The new instrument developed in this project requires cognitive testing to make sure respondents accurately understand and can answer questions and testing to make sure the final format of the questions used can be compared to responses to the original wording and order from the CFCS questionnaire. A pilot study was conducted to meet both of these tests.

Design of the pilot study

⁸ See for example Schriesheim, C. and R. Eisenbach (1995) "An Exploratory and Confirmatory Factor-Analytic Investigation of Item Wording Effects on the Obtained Factor Structures of Survey Questionnaire Measures", <u>Journal of Management</u>, Vol. 21(6), pp.1177-1193.

The study was designed as a series of face-to-face interviews with adults aged 18 and over who might be approximately representative of clients of many financial literacy programs across Canada. Unfortunately since there is little program—to-program data on the profiles of program participants across Canada, it was not possible to use a stratified sample to represent different subgroups of clients such as newcomers to Canada. Also given the pilot sample size (n=30) it is unlikely that a truly stratified approach would have yielded meaningful data. This means that the current pilot study should be replicated again with participants from subgroups if there is reason to think their understanding of certain questions or their answers to test items will be systematically different.

The current pilot consisted of 15 interviews in English and 15 interviews in French. Respondents were recruited primarily through Entraide Budgétaire, a charitable organization with more than 30 years of experience in providing financial literacy workshops and personalized counseling to clients in Ottawa. Of the 30 participants, 29 were recruited through Entraide and 1 through the Centretown Community Health Centre, a non-profit multi-service agency that had hosted an early study related to financial literacy. Participants were contacted by telephone and invited to take part in a study to test a new financial literacy quiz. They were informed they would receive a \$40 cash honorarium for their time and when they had agreed to be contacted by the research team, their name and contact information was added to a list of volunteers. Volunteers were then contacted by the interviewer, a graduate student at Carleton University with a background in social work and communications, to schedule an individual interview. Interviews were conducted at Entraide Budgétaire's offices and responses for each interviewee were recorded on an electronic spreadsheet.

All participants completed an informed consent process and were paid a \$40 honorarium at the end of the interview. A copy of the informed consent document is attached at Appendix B.

The first part of the interview consisted of the test items for the new instrument as attached at Appendix A. The interviewer read the question in full to the respondent and also read aloud any response options. The average time for this portion of the interview was between 5 and 7 minutes. Following this quiz, participants were offered a short break. After the break, the interviewer completed the second portion of the interview consisting of items taken directly from the CFCS questionnaire and asked in the same order that they appear in the CFCS questionnaire. A copy of these is available at Appendix C. Again, the interviewer read the questions and response options in full. There were a total of 54 items asked in this second part of the interview and respondents took nearly 45 minutes on average to answer all of those questions.

Participants were advised that they were participating in a test of a new quiz and were not being evaluated on their own financial literacy. They were not provided with any scores or interpretation of their responses.

Quantitative results from the pilot study and discussion

Table 1 (below) summarizes the basic demographic data that was collected for the participants. Median age for participants was above 45 years of age, median education

was some form of PSE certification (but less than a university degree) and median personal income for 2011 was below \$20,000.

The existing literature finds that stronger financial literacy is associated with age and higher education. The relationship to age is understood to be a function of financial experience – with increased age people have had more opportunities to handle their personal finances and to learn from negative and positive experiences, the latter seem to be the most effective teaching tool for future financial practices. The relationship to education is understood to be a function of higher levels of basic and essential skills such as document literacy, critical thinking and numeracy. These skills may be necessary (but not sufficient) for stronger levels of financial literacy and in fact much of the supply of financial information for learning is directed at an audience with advanced levels of numeracy, literacy and cognition.

Among the 30 participants, 6 reported that they were already retired however it is unclear whether they were still attached to the workforce in some way even if it was only to look for work or working occasionally or part-time. Participants were not asked questions about their employment status. Prior research does not find a consistent relationship between employment status and financial literacy. Similarly, the literature finds that some aspects of financial literacy, namely planning ahead, do increase with income but others, such keeping track of finances, are not significantly higher among upper income respondents.

In short, it is unlikely that the characteristics of the sample had an important effect on the results of the study. This is particularly the case since the main variable of interest was the association of respondent's answers to the new instrument and the CFCS items.

Table 1: Sample characteristics:

Gender	Male	Female			
# of participants	11	19			
Age	18 to 30 years	31 to 45 years	46 to 65 years		
# of participants	4	9	17		
Income	<\$20K	\$20K to < \$40K	\$40K to < \$80K	\$80K to <\$100K	\$100K +
# of participants	22	7	0	1	0
Highest education completed	Less than high school	High school diploma or equivalent	Some post- secondary but no certificate, diploma or degree	Post- secondary or professional diploma, certificate or CEGEP diploma	University degree
# of participants	3	1	6	10	10

Quantitative results from the pilot were entered into SPSS. Data entry was checked for consistency against the original collection forms and all responses were recoded into numerical values to simplify analysis. A summary of the recoding of variables is attached at Appendix D.

Table 2 below summarizes the descriptive results for the new financial literacy quiz being piloted. The numerical values for the range, mean and standard deviation are reported to give the reader a sense of the spread or distribution of the responses. A larger standard deviation indicates a wider spread of responses to the same question whereas a smaller standard deviation indicates that most respondents answered similarly and near or on the average response. The final column translates the numerical value of the average response back into a narrative answer for ease of reference.

Table 2: Descriptive statistics for quiz items

	# of valid responses	Min	Max	Mean	Std. Deviation	Mean (in narrative)
MEM1	30	1	4	2.20	.761	Keeping up, but sometimes it's a struggle
MEM2_Bill	30	1	2	1.53	.507	No, never behind on a bill
MEM2B_Housing	30	1	2	1.93	.254	No, never behind on rent or mortgage
MEM2C_Loan	30	1	2	1.77	.430	No, never behind on a loan
DER_MEM2	30	0	6	4.50	1.526	Never behind on rent or mortgage but behind on either bill or loan
KT3	30	1	2	1.17	.379	Yes, has a budget
KT3B	30	1	6	2.47	1.776	Usually stays in budget
DER_3KT	30	0	4	2.70	1.442	Has budget and usually stays in budget
KT4	30	1	6	2.90	1.398	Checks account(s) every 2 weeks
KT5	30	1	2	1.17	.379	Agrees, keeps close eye on finances
PA6	30	1	4	2.23	.971	No, not planning for retirement
PA6B	30	1	4	3.03	.809	Not very confident about retirement
DER_PA6	30	0	6	2.27	1.680	Not planning and not at all confident about retirement
PA7	30	1	2	1.67	.479	No, does not have a will
PA7B	30	1	2	1.37	.490	Yes, has insurance
DER_7PA	30	0	2	.97	.765	Has will or insurance, not both

PA8	30	1	7	3.67	1.626	Would borrow from a bank or use credit to cover unexpected cost
CP9	30	1	3	1.47	.681	Agrees, has clear idea of products needed
CP10	30	1	2	1.20	.407	Agrees, researches financial choices
SI11	30	0	5	2.10	1.807	Keeps an eye on 2 financial topics
SI12	30	1	2	1.70	.466	No, no formal financial learning in last 5 years
MEM13	30	1	4	2.47	.973	Good at making ends meet
KT14	30	1	4	1.90	.923	Good at keeping track
SI15	30	1	5	2.97	1.159	Fairly good at staying informed
CP16	30	1	5	2.50	1.306	Fairly good at choosing products

The main analysis conducted on the data was a test for association between participants' responses to the quiz items and the matching CFCS items. Given the small sample size for this pilot, both parametric and non-parametric tests were performed and significance of the correlation coefficients is reported using 2-sided P values since the direction of any variation between the two sets of responses can't be presumed in advance. Table 3 (below) reports the results of this analysis.

Table 3: Association between quiz and comparison CFCS items

Item pairing	Pearson <i>r</i>	Spearman's <i>rho</i>
1MEM and OE_Q17	0.339	0.356
Derived 2MEM and Derived Behind	.763**	.680**
Derived 3KT and Derived Budget	.699**	.657**
4KT and OE_Q05	.889**	.900**
5KT and SA_Q11	.595**	.704**
Derived 6PA and Derived R_Plan	0.326	0.302
Derived 7PA and Derived Plan	.945**	.945**
8PA and FM_Q02 or FM_Q03	.399*	.385*
9CP and SA_Q10	.396*	.510**
10CP and SA_Q13	.582**	.582**
11SI and FC_Q05	.899**	.900**
12SI and DM_Q09	.843**	.843**
13 MEM and SA_Q03	.686**	.678**
14KT and SA_Q02	.502**	.501**
15SI and SA_Q05	.692**	.708**
16CP and SA_Q04	.392*	.455*
*. Cor	relation is significant a	t the 0.05 level (2-tailed)
**. Cor	relation is significant a	t the 0.01 level (2-tailed)

Nearly every pairing in Table 3 above shows a strong and significant relationship which means that responses to the questions as worded on the new instrument are generally

comparable to the associated question as worded on the Canadian Financial Capability Survey. The results support the approach underlying the design of the new instrument and the use of CFCS results as an empirical comparison to help interpret individual answers.

There are two pairs of questions that did not lead to statistically significant associations between quiz and CFCS items:

- 1. 1MEM and OE_Q17: Questions asking respondents to evaluate how well they were keeping up with their financial obligations.
- 2. Derived 6PA and Derived R_Plan: Questions asking respondents to reflect on their behavior and confidence related to retirement planning.

Both of these questions invite participants to report on their confidence about their current or future financial lives. A review of the data suggests that the lack of a significant association between these pairings is likely to due to the repeated measure nature of the pilot. Participants offered an initial response in the first part of the interview and were then asked very similar questions in the second part but after responding to a wide range of questions about their financial practices and attitudes. It is likely that the experience of answering more questions caused participants to reflect differently on their current or future financial lives and, in approximately half of the cases, to revise their perspective. This is a finding consistent with the qualitative results from other research on financial literacy and is also supported by the literature on the importance of question order. However, the results here do not support the view that participants were overconfident and then reduced their self-reported confidence after further reflection. A detailed look at the direction of the changes (whether a respondent re-assessed their circumstances to be better or worse or expressed greater or less confidence) found that participants who changed their response were as likely to respond more positively as more negatively when the question was repeated. On the basis that a more thoughtful, reflective answer may be more accurate, the results here strongly suggest that the order of the questions in the new instrument (and in other financial literacy research or evaluation instruments) place questions that ask for any kind of overall assessment of present or future financial well-being should be positioned later on.

Qualitative results from the pilot study and discusion

In addition to reporting on the quantitative analysis of the pilot, the process of interviewing participants highlighted a few qualitative observations that are worth discussion.

The first observation is that several participants asked the interviewer for feedback on how they were doing, not withstanding a clear and repeated emphasis that the purpose of the interview was to pilot a quiz, not assess their personal financial literacy. I interpret this as an indication of a response bias that may arise in face-to-face interviews, particularly about socially, emotionally and culturally sensitive topics such as money. Notwithstanding the efforts of the interviewer to put respondents at ease, it is clear that all respondents to a questionnaire of any kind or length about personal finance are going

to experience some stress and there are likely to be some demand effects from the interviewer. For community-based agencies who are using questionnaires to asses and triage new clients or to evaluate their own program delivery, the demand effects are likely to be even greater. Where possible protocols to allow participants to read and answer questions independently or to be interviewed by someone other than a staff person providing the service may lead to more accurate answers. In this case, the accuracy of the response is a secondary concern given the repeated measures design to evaluate the new instrument.

The second observation is that potential for response bias – particularly social desirability bias - may be greater with certain kinds of questions. Social desirability bias occurs when a respondent alters his or her response to meet what they think is the social norm or socially acceptable response. In the interviews it appeared as though some participants may have revised an initial answer about the number of financial topics they monitored to ensure they gave a non-zero answer. However, the correlation between the first and second questions about the number of topics monitored is almost perfect so it is unlikely that asking again or in a different order would yield a different outcome. Similarly, some participants hesitated or showed other signs of discomfort in answering questions about the use of fringe financial service providers including cheque cashers, payday lenders and pawnbrokers. Interestingly every one of the 30 participants in the pilot stated they had at least one deposit account with a mainstream financial institution. Self-reported estimates of the number and frequency of use of payday lenders, particularly when the response is given face-to-face, may be at the low end of the real range however without better access to industry data it is difficult if not impossible to verify this hypothesis.

Taken together the qualitative observations above suggest that care should be taken in administering any surveys or measures of financial literacy. Formats that allow respondents to complete a survey confidentially and in privacy on their own may yield more honest responses. Care should be taken to make sure that client service staff are not inadvertently signaling to respondents a desired response or type of response, either before or after service is provided. If at all possible, it may be wise to avoid having trainers/facilitators/counselors who have provided a direct service to a client be the same staff to administer a post-service survey or questionnaire instrument.

Additional considerations and next steps

As discussed at the outset of this report, a key motivation in developing this new financial literacy measurement tool is to better equip practitionners in the delivery and evaluation of financial literacy programs and services. A tool that allows practitionners to quickly and accurately get a measure of a client's financial literacy could be a useful tool at the intake stage if practitionners offer more than one option in their service delivery. If the tool shows that a participant is very strong in keeping track of their finances, relative to other adults, it may be a more efficient and effective use of program time and resources to emphasize skills development, knowledge and influencing attitudes on other domains of financial literacy. However, there is work to be done to match or link the products and services offered by financial literacy providers to the 5 domains model outlined above. Which topics in a module-based financial literacy program address gaps

in each keeping track, making ends meet, choosing products, planning ahead and staying informed (recognizing that modules may cover more than one area at a time)? For organizations offering very brief or even single-session coaching, when a client presents with an urgent crisis, is there time and is it appropriate to aim to change broader knowledge, skills or attitudes on one or more domains of financial literacy? There is so much variation in the design and implementation of financial literacy interventions in Canada that this linking of research and practice can, for now, only be done at an organizational or community-based level. The matrix below may be helpful to practitionners interested in the 5 domain model of financial literacy to think about how their own programs and services may be changing their clients' financial literacy in one or more ways.

Table 5: Starting to think about financial literacy programs in a 5-domain model

	Skills	Knowledge	Attitudes
Keeping track	How do our programs change the skills clients have to be able to keep track of their money?	How do our programs change the knowledge clients have to be able to keep track of their money?	How do our programs change the attitudes clients to motivate them to keep track of their money?
Making ends meet	How do our programs change the skills clients have to be able to make ends meet?	How do our programs change the knowledge clients have to be able be able to make ends meet?	How do our programs change the attitudes clients to motivate them to make ends meet?
Choosing products	How do our programs change the skills clients have to be able to choose financial products and services that meet their needs?	How do our programs change the knowledge clients have to be able to chose financial products and services that meet their needs?	How do our programs change the attitudes clients to motivate them to choose financial products and services that meet their needs?
Planning ahead	How do our programs change the skills clients have to be able to plan ahead financially for expected and unexpected costs?	How do our programs change the knowledge clients have to be able to plan ahead financially for expected and unexpected costs?	How do our programs change the attitudes clients to motivate them to plan ahead financially for expected and unexpected costs?
Staying informed	How do our programs change the skills clients have to be able to stay informed about personal finance?	How do our programs change the knowledge clients have to be able to stay informed about personal finance?	How do our programs change the attitudes clients to motivate them to stay informed about personal finance?

Another motivation behind the current pilot is to develop an instrument that could be used to measure the effects of a financial literacy intervention. If we can measure someone's financial literacy in a reliable, empirical way, before they start a financial literacy program and then take another measure at some point after they have completed a program, if their financial literacy improves, we can attribute this, all else being equal, to an effect of the program. Some financial literacy programs may offer 15 or more hours of workshop-based learning plus take-home exercises to try to build new financial habits. Other financial literacy programs may only offer a few hours or less of one-on-one counseling where a client may only be seen once by the staff. The instrument developed and piloted here could be used for pre- and post-tests evaluations

to look for measurable change in someone's answers or score after a financial literacy program. However, a pre- and post-test approach is not necessarily appropriate to all types of financial literacy interventions. The instrument here is intended to get a composite estimate of an individual's overall financial literacy. If the goal of a financial literacy intervention is not to change the overall financial literacy of a client or at least an important chunk of it, then an overall measurement instrument will not be appropriate as an evaluation tool. The questions on the quiz have been labeled to make clear to users which of the 5 domains they are intended to measure so users may want to pick and chose certain domains if overall change in financial literacy is not intended or expected. Certainly the brief nature of the quiz suggests there is ample room to add questions of particular interest to an organization or researcher.

The question of timing in any pre- and post-test is also worth considering. The questions, even as adapted from the CSFC, ask participants to reflect on the future but also on their current circumstances where the time frame is the last 12 months (question 2MEM) or the last 5 years (question 12SI). Repeating the same question in too short a short-time frame may not allow for reportable change. There are at least 2 possible strategies to handle this issue:

- 1) Delaying a post-test collection until some time later, judged by the evaluator to be sufficient to capture any reportable change in the behaviors of interest. On the one hand, projects do not always have the luxury of time and funding to wait for a follow-up 6 months or longer after a client completes a program or service and project reports are often due soon after services are completed. On the other hand, an important and usually unaddressed question in most evaluations of financial literacy interventions has to do with the durability of any change. By waiting to collect a post-test (or even a second post-test) evaluators will be better placed to see whether or not any change is lasting.
- 2) Collecting a post-test measure within a shorter interval but supplementing with additional questions to look for any change in a very recent period. For example, a program that works with clients over 2 months may want to add a post-test question to 2MEM to look for any change over those 2 months. While the question that is comparable to the CFCS data may not reveal any change over a 12 month interval, the evaluation results could be interpreted with the benefit of the additional information.

Now that the new instrument has been designed, reviewed and piloted, the immediate next step will be to produce a series of tables of the comparison data from the Canadian Survey of Financial Capability⁹. In the medium-term, the available comparison data will come from a number of cross-tabulations to look at the distribution of responses among:

All adult Canadians aged 18 and over

⁹ Analysis will be done using the public use micro-data file for the survey. Suppression of variables or grouping of responses is unlikely to be a concern for the variables of interest but should be flagged.

 All adult Canadians with a personal income below \$20,000 as a proxy for a measure of low-income.

These cross-tabulations will be used to interpret results separately for each question on the new instrument. An illustrative example is included in Box 1 below.

More customized cross-tabulations can also be created from the CFCS data to create comparisons by other characteristics of interest, beyond income. For example, an organization serving mostly low-income newcomers to Canada may want to generate a series of comparison tables for the sub-population of survey respondents with a low-income and who are refugees or landed immigrants/permanent residents. Given the number of demographic variables collected by the CFCS, a remarkable level of granularity may be possible.

The next phase of work will be to equip the same instrument to be scored for each of the 5 domains. To arrive at a score, a factor analysis of the CFCS data will be conducted that includes but is not limited to the comparison CFCS questions as they have been recoded for this project. The result will be a set of 5 scales that may match or differ from earlier research reports. The factor analysis will also generate a set of factor loadings for each question (or derived variable) which can then be used to create a score for each item on the piloted quiz. When scores for the items relating to the same scale are added together, they would give an estimate of an individual respondent's position on the full scale, compared to other Canadian adults. An illustrative example of this kind of application is also included in Box 1 below.

Conclusions

The current project has made substantial progress towards the end goal of having a simple but empirically scored tool to measure individual financial literacy. The design and development of new measurement tools is almost always step-wise and longer than desired but the final quality of the end product depends on getting the early stages right. Having a short set of easy to answer, easy to understand and meaningful questions that can be compared to national level data is an important contribution to the evaluation and research of financial literacy in Canada.

Box 1: Different ways to use the new quiz with comparable data: Illustrative examples

With question-to-question comparisons

A client answers the question 4KT "How often do you check the balances of any bank accounts you have" by responding "monthly".

The comparison data from the CFCS is (for illustrative purposes only, this is not an accurate distribution from the survey data):

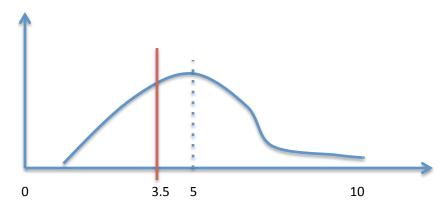
Daily: 2% of Canadians, Weekly: 18% of Canadians, Every 2 weeks: 25% of Canadians, Monthly: 25% of Canadians, Yearly: 15%, Never: 15%.

You can report that the client is similar to 25% of Canadians and checks his or her account less often than 45% of Canadians or more often than 30% of Canadians.

With a scored comparison

A client answers the quiz and answers the questions about staying informed (11SI on the number of topics monitored, 12 SI on taking a course and 15SI on the self-assessed ability to stay informed) as "2 topics", "no" and "fairly good" respectively. The raw scores are 2, 0 and 1 which you then multiply by the factor loading or weight for each question and add the totals together. The client has a total score of 3.5 out of a possible 10.

The comparison data (graphed below) show that the average score on the "staying informed" scale was 5 and that 40% of Canadians had a score of 3.5 or lower. You can say that the client is below average and likely would be in the 40th percentile for staying informed compared to other Canadians.



Appendices

A: Final version of new instrument as piloted.

B: Copy of informed consent.

List of full comparison questions from CFCS Recoded and derived variables C:

D:

Appendix A: Final pilot instrument

Q#	Questi	ion		
1 MEM	Thinking of the last 12 months, how well have you	been keeping up with your financial commitme	ents?	
		Keeping up without any problems		
		Keeping up but it sometimes a struggle		
		Having real financial problems and falling behind		
		I don't know		-
2 MEM	Thinking of the last 12 months, were you ever behi		bill?	
		Yes		
		No		1
		I don't know		
2.1	in paying your rent or mortgage?			
		Yes		
		No I don't know		+
2.2	in making a loan payment?		<u>I</u>	
	3 p. 19	Yes		
		No		
		I don't know		
3 KT	Do you have a household budget?			_
		Yes		
		No I don't know		
3.1	How often do you stay within your budget?	TOTALINO	_	
5. .		Always		
		Usually		1
		Rarely]
		Never I don't know		
		I don't know I don't have a budget		-
4 KT	How often do you usually check the balances on a	Ÿ	·	
	, ,	Daily		
		Weekly		
		Every two weeks		
		Monthly Yearly		
		Never		1
		I don't know		
		I don't have any accounts		
5 KT	I keep a close watch on my finances.	-		,
		Agree Disagree		
		I don't know		1
0.04	Are you planning ahead financially for when you ge		ny things li	ke your
6 PA	own savings, government programs, pensions at w		, ,	
		Yes		
		No I don't know		
		I'm already retired		1
6.1	How confident are you that your household income		ļ	
		Very confident		
		Fairly confident		1
		Not very confident		
		Not at all confident		
		Don't know		
7 PA	Do you currently have a will?		-	
		Yes		
		No Design language		
	Do you gurrenthy house province and the same of	Don't know		
7.1	Do you currently have any insurance policies such		urance?	1
		Yes No		
		Don't know		1

8 PA	If you had a large unexpected cost, for example eq	uivalent to your take-home pay for at least 2 w	veeks, how would
	you mostly likely cover this expense?	Use savings	
		Sell an asset or personal posession	
		Borrow from friends or family	
		Borrow from a bank or use a credit card	
		Go to a pawnbroker or payday lender	
		I couldn't cover that kind of cost	
		I don't know	
9 CP	I've got a clear idea of the financial products I need		
		Agree	
		Disagree	
		I don't know	
10 CP	I always research my choices before I make a deci		
		Agree	
		Disagree	
		I don't know	
11 SI	Are there any financial things that you personally k	eep an eye on? Mark all that apply.	
		House prices and sales	
		The stock market	
		Currency market (the Canadian vs other	
		dollars)	
		Interest rates	
		Inflation	
		Taxes	
		The job market Pension plans or benefits at work	
		Sales of consumer goods and services	
		Other	
		None of the above. I don't keep an eye on	
		financial things.	
		Total number (Max 5)	
12 SI	In the last five years, have you taken a course or p	rogram to learn about financial or economic to	pics?
12 SI	In the last five years, have you taken a course or p	rogram to learn about financial or economic to Yes	pics?
12 SI	In the last five years, have you taken a course or p	rogram to learn about financial or economic to Yes No	pics?
		rogram to learn about financial or economic to Yes No I don't know	pics?
12 SI 13 MEM	In the last five years, have you taken a course or p How would you rate yourself on making ends meet	rogram to learn about financial or economic to Yes No I don't know ??	pics?
		rogram to learn about financial or economic to Yes No I don't know ? Very good	pics?
		rogram to learn about financial or economic to Yes No I don't know ? Very good Good	pics?
		rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good	pics?
		rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good Not very good	pics?
13 MEM	How would you rate yourself on making ends meet	rogram to learn about financial or economic to Yes No I don't know Yery good Good Fairly good Not very good I don't know	pics?
		rogram to learn about financial or economic to Yes No I don't know Yes Very good Good Fairly good Not very good I don't know Oney?	pics?
13 MEM	How would you rate yourself on making ends meet	rogram to learn about financial or economic to Yes No I don't know Yery good Good Fairly good Not very good I don't know	pics?
13 MEM	How would you rate yourself on making ends meet	rogram to learn about financial or economic to Yes No I don't know Yes Very good Good Fairly good Not very good I don't know Oney? Very good Very good	pics?
13 MEM	How would you rate yourself on making ends meet	rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good Not very good I don't know oney? Very good Good	pics?
13 MEM	How would you rate yourself on making ends meet How would you rate yourself on keeping track of m	rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good I don't know oney? Very good Fairly good Fairly good Not very good Fairly good Fairly good Not very good I don't know oney?	pics?
13 MEM	How would you rate yourself on making ends meet	rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good I don't know oney? Very good Fairly good Fairly good Not very good Fairly good Fairly good Not very good I don't know oney?	pics?
13 MEM	How would you rate yourself on making ends meet How would you rate yourself on keeping track of m	rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good I don't know oney? Very good Fairly good Fairly good Not very good Fairly good Fairly good Not very good I don't know oney?	pics?
13 MEM	How would you rate yourself on making ends meet How would you rate yourself on keeping track of m	rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good Not very good I don't know oney? Very good Good Fairly good Good Fairly good Good Fairly good Good Fairly good Not very good I don't know on financial issues? Very good Good Good	pics?
13 MEM	How would you rate yourself on making ends meet How would you rate yourself on keeping track of m	rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good Not very good I don't know oney? Very good Good Fairly good Hoo't know oney? Very good Good Fairly good I don't know on financial issues? Very good Good Fairly good	pics?
13 MEM	How would you rate yourself on making ends meet How would you rate yourself on keeping track of m	rogram to learn about financial or economic to Yes No I don't know Yes Very good Good Fairly good Not very good I don't know Yery good Good Fairly good Good Fairly good Good Fairly good I don't know Yery good Good Fairly good Very good I don't know Yery good Fairly good Good Fairly good Not very good Not very good	pics?
13 MEM	How would you rate yourself on making ends meet How would you rate yourself on keeping track of m	rogram to learn about financial or economic to Yes No I don't know Yes Very good Good Fairly good I don't know Yery good	pics?
13 MEM 14 KT	How would you rate yourself on making ends meet. How would you rate yourself on keeping track of making ends meet. How would you rate yourself on staying informed of	rogram to learn about financial or economic to Yes No I don't know Yes Very good Good Fairly good I don't know Yory good I don't know Yory good I don't know Yory good Good Fairly good Not very good I don't know Yory good I don't know Yory good I don't know Yory good Good Fairly good Good Fairly good Good Fairly good Good Fairly good Not very good I don't know Yery good I don't know Yery good I don't know Yery good	pics?
13 MEM	How would you rate yourself on making ends meet How would you rate yourself on keeping track of m	rogram to learn about financial or economic to Yes No I don't know Yes Very good Good Fairly good I don't know Yery good I don't know Yery good I don't know Yery good Good Fairly good Not very good I don't know Yery good Yery good I don't know Yery good I don't know Yery good	pics?
13 MEM 14 KT	How would you rate yourself on making ends meet. How would you rate yourself on keeping track of making ends meet. How would you rate yourself on staying informed of	rogram to learn about financial or economic to Yes No I don't know Yes Very good Good Fairly good Not very good I don't know Yery good Good Fairly good Good Fairly good Not very good I don't know Yery good Good Fairly good Not very good I don't know Yery good I don't know Yery good	pics?
13 MEM 14 KT	How would you rate yourself on making ends meet. How would you rate yourself on keeping track of making ends meet. How would you rate yourself on staying informed of	rogram to learn about financial or economic to Yes No I don't know Yes Very good Good Fairly good Not very good I don't know Yery good Good Fairly good Not very good I don't know Yery good Good Fairly good Not very good I don't know Yery good I don't know Yery good Good Fairly good Good Fairly good Good Fairly good Not very good I don't know Yery good Good	pics?
13 MEM 14 KT	How would you rate yourself on making ends meet. How would you rate yourself on keeping track of making ends meet. How would you rate yourself on staying informed of	rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good I don't know roney? Very good Good Fairly good Not very good I don't know roney? Very good Good Fairly good Not very good I don't know ron financial issues? Very good Good Fairly good Not very good I don't know ron financial issues? Very good Good Fairly good Not very good I don't know Very good I don't know Very good Fairly good	pics?
13 MEM 14 KT	How would you rate yourself on making ends meet. How would you rate yourself on keeping track of making ends meet. How would you rate yourself on staying informed of	rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good I don't know oney? Very good Good Fairly good Not very good I don't know oney? Very good Good Fairly good Not very good I don't know on financial issues? Very good Good Fairly good Not very good I don't know on financial issues? Very good Good Fairly good Not very good I don't know Very good I don't know Very good Fairly good Food Fairly good Food Fairly good Not very good Not very good	pics?
13 MEM 14 KT	How would you rate yourself on making ends meet. How would you rate yourself on keeping track of making ends meet. How would you rate yourself on staying informed of	rogram to learn about financial or economic to Yes No I don't know ? Very good Good Fairly good I don't know roney? Very good Good Fairly good Not very good I don't know roney? Very good Good Fairly good Not very good I don't know ron financial issues? Very good Good Fairly good Not very good I don't know ron financial issues? Very good Good Fairly good Not very good I don't know Very good I don't know Very good Fairly good	pics?

CONSENT FORM

Project: Pilot test of a quiz on financial literacy
I, agree to take part in a pilot study of a quiz on financial literacy. I understand this project is being conducted by Jennifer Robson with a research assistant, Jonathan Juteau, as part of a larger project for Social and Enterprise Development Innovations (SEDI). SEDI is a national charitable organization that designs and tests new programs for low-income Canadians. Entraide Budgetaire has agreed to help SEDI with this project by contacting potential participants and facilitating meeting space for interviews.
My involvement will be restricted to taking part in one (1) sixty (60) minute interview with Jennifer and/or Jonathan. The interview will cover a brief set of questions about my general financial knowledge, attitudes and habits. The purpose is to test a new financial literacy quiz, not to test my own financial literacy. I will not be given a score or my individual results.
I will not be asked to share specific details about my own finances such as my income or debts. My name and any other identifying or potentially identifying information that I may disclose during the interview will taken out of the data before it is used by the researcher and will not be published in any report or paper. My results will only be reported as part of the pool with all other participants in the study.
I understand that my interview responses will be entered into an Excel spreadsheet by the interviewer using a laptop computer. This file will be kept confidential by the interviewer and will only be given to and used by the lead researcher (Jennifer Robson). The researcher agrees to keep the completed files on a secure hard-drive using a password protection for the file. The file will be destroyed at the end of the research project.
I understand that I can refuse to answer any of the questions in the interview. I understand that I can end the interview at any time and for any reason. I understand that I can withdraw my consent to be part of this research project at any time before April 1 and for any reason.
I understand that I may ask for a copy of the final report for this project by contacting Jennifer Robson at the address listed below.
I understand that at the end of the interview participants will each receive a cash honorarium of \$40.
Signed at Ottawa on DATE
Name: PLEASE PRINT FULL NAME
Signature:
COMPLETE THIS SECTION AFTER THE INTERVIEW
I acknowledge receipt of \$40.00 from the interviewer as an honorarium for participating in a research project on a financial literacy quiz.
Signature Date

For questions about the research project:

Jennifer Robson Riddell Program in Political Management Carleton University 1125 Colonel By Drive Ottawa, Ontario K1S 5B6

Tel: 613.520.2600 x8384

Email: Jennifer robson@carleton.ca

For questions about SEDI:

Social and Enterprise Development Innovations 1110 Finch Ave West, Suite 406 Toronto, ON M3J 2T2 www.sedi.org

Tel: 416.665.2828 E-mail: <u>info@sedi.org</u>

Appendix C: Comparison questions from the Canadian Financial Capability Survey

Q#	Questi	on		
DM_Q09	In the past five years, have you taken a course or p of the economy or financial matters?	orogram of study to increase your knowlede an	nd understa	anding
		Yes		
		No		
		Don't know		
OE_Q02	How many personal chequing or savings accounts company? Please exclude any investment account	s, lines of credit and joint accounts.	n or trust	
		None ENTER NUMBER		
		Don't know		
	How many joint chequing or savings accounts, that		one else. c	do vou
OE_Q02B	currently have with a bank, credit union or trust con or personal accounts counted above.			
		None		
		ENTER NUMBER	\vdash	
OF 002	With how many different institutions do you have th	Don't know		
OE_Q03	With how many different institutions do you have the			
		ENTER NUMBER		
		None, no accounts		
OE_Q04H	How do you typically check the balance for your ac	count or accounts?		
		I check the bank statement sent in the mail		
		I check the statement online (internet		
		banking)	\vdash	
		I check through telephone banking	\vdash	
		I call the bank and ask for my balance	\vdash	
		I ask for my balance, statement or update my bank book at a bank branch		
		I ask for my balance, statement or update my	,	
		bank book at an ATM/cash machine		
		I receive a text message from the bank I never check	\vdash	
		Don't know	\vdash	
		No accounts		
OE_Q05	How often do you usually check your account balar	nce(s)?		
		Daily		
		Weekly		
		Every two weeks	\vdash	
		Monthly Yearly	\vdash	
		Never		
		Don't know		
		Don't have account		
OE_Q11	Do you have a household budget?			
		Yes		
		No		
		Don't know	oxdot	
OE_Q12	How often do you stay within your budget?			
		Always	\vdash	
		Usually Rarely	\vdash	
		Never		
		Don't know		
0.5		No budget		
OE_Q14	Thinking about the last 12 months, were you ever be		ıng a bill?	
		Yes No	\vdash	
		Don't know	$\vdash \vdash \vdash$	
OE_Q15	Still thinking about the last 12 months, were you ev or mortgage?		paying you	ır rent
		Yes		
		No Don't know		

	In that same time period, were you ever behind two		ayment?
		Yes	
		No Don't line and	
		Don't know	
OE_Q17	Again, thinking of the last 12 months, which one of		vell you and your
	immediate family have been keeping up with your l		
		Keeping up with all bills and commitments	
		without any problems	
		Keeping up with all bills and commitments,	
		but it is sometimes a struggle	
		Having real financial problems and falling behind with bills or credit commitments	
		Don't have any bills or credit commitments	
		Don't know	
EM 000	If you had to make an unavacated avacaditure tod		02
FM_Q02	If you had to make an unexpected expenditure toda		<i>e:</i>
		Use savings	
		Borrow from a friend or relative	
		Use a personal line of credit Borrow from a financial institution	
		Use a credit card	
		Sell a financial asset or personal possession	
		Go to a pawnbroker or payday loan service	
		Other	
		Would not be able to pay this expenditure	
		Don't know	
FM_Q03	And if the expenditure were \$5,000, how would you		
1 III_Q00	Tina ii ii io oxportanare more we,eee, nen meala yee	Use savings	
		Borrow from a friend or relative	
		Use a personal line of credit	
		Borrow from a financial institution	
		Use a credit card	
		Sell a financial asset or personal possession	
		Go to a pawnbroker or payday loan service	
		Other	
		Would not be able to pay this expenditure	
	la the clean 10 are author beautiful and distance aliderates and	Don't know	
FM_Q04A	In the last 12 months, how many times did you or a financial services: A pawnbroker to sell a possession		owing alternative
		Mayor	
		Never	
		ENTERNUMBER	
		ENTERNUMBER	
FM_Q04B	In the last 12 months, how many times did you or a financial services: A payday loan service?	ENTERNUMBER Don't know	owing alternative
FM_Q04B	In the last 12 months, how many times did you or a financial services: A payday loan service?	ENTERNUMBER Don't know another member of your household use the follo	owing alternative
FM_Q04B		ENTERNUMBER Don't know another member of your household use the following the control of the c	owing alternative
FM_Q04B		ENTERNUMBER Don't know another member of your household use the folk Never ENTER NUMBER	owing alternative
FM_Q04B	financial services: A payday loan service?	ENTERNUMBER Don't know another member of your household use the following the follow	
FM_Q04B		ENTERNUMBER Don't know another member of your household use the following the following process of the following proces	
_	financial services: A payday loan service? In the last 12 months, how many times did you or a	ENTERNUMBER Don't know another member of your household use the following the following process of the following proces	
_	financial services: A payday loan service? In the last 12 months, how many times did you or a	ENTERNUMBER Don't know another member of your household use the following the followin	
_	financial services: A payday loan service? In the last 12 months, how many times did you or a	ENTERNUMBER Don't know another member of your household use the following the followin	
_	financial services: A payday loan service? In the last 12 months, how many times did you or a	ENTERNUMBER Don't know another member of your household use the following the followin	
_	financial services: A payday loan service? In the last 12 months, how many times did you or a	ENTERNUMBER Don't know Inother member of your household use the following the followin	
_	In the last 12 months, how many times did you or a financial service: A cheque cashing service, other to	ENTERNUMBER Don't know Inother member of your household use the following the followin	owing alternative
_	financial services: A payday loan service? In the last 12 months, how many times did you or a	ENTERNUMBER Don't know mother member of your household use the following	owing alternative
FM_Q04C	In the last 12 months, how many times did you or a financial service: A cheque cashing service, other to be a financial service of the servic	ENTERNUMBER Don't know Inother member of your household use the following the followin	owing alternative
FM_Q04C	In the last 12 months, how many times did you or a financial service: A cheque cashing service, other to be a financial service of the servic	ENTERNUMBER Don't know Inother member of your household use the following the followin	owing alternative
FM_Q04C	In the last 12 months, how many times did you or a financial service: A cheque cashing service, other to be a financial service of the servic	ENTERNUMBER Don't know Inother member of your household use the following the followin	owing alternative
FM_Q04C ME_Q01	In the last 12 months, how many times did you or a financial service: A cheque cashing service, other to the service of the se	ENTERNUMBER Don't know Inother member of your household use the following the followin	owing alternative
FM_Q04C	In the last 12 months, how many times did you or a financial service: A cheque cashing service, other to be a financial service of the servic	ENTERNUMBER Don't know mother member of your household use the folia Never ENTER NUMBER Don't know mother member of your household use the folia han a bank? Never Once Twice Three times or more, enter number Don't know and the possible cost of your children's higher ed 0,000 or more in the next three years? For exa s, travel abroad or for a wedding. Yes No Don't know ther on your own or through an employer pensite	owing alternative
FM_Q04C ME_Q01	In the last 12 months, how many times did you or a financial service: A cheque cashing service, other to the service of the se	ENTERNUMBER Don't know mother member of your household use the following	owing alternative
FM_Q04C	In the last 12 months, how many times did you or a financial service: A cheque cashing service, other to the service of the se	ENTERNUMBER Don't know mother member of your household use the folia Never ENTER NUMBER Don't know mother member of your household use the folia han a bank? Never Once Twice Three times or more, enter number Don't know and the possible cost of your children's higher ed 0,000 or more in the next three years? For exa s, travel abroad or for a wedding. Yes No Don't know ther on your own or through an employer pensite	owing alternative

Government pension benefits (CPP, QPP, OAS, GIS) Occupational or workplace pension plan benefits Personal retirement savings plan benefits (RRSP, RSP) Obtaining a reverse mortgage Sell your financial assets (such as: stocks, bonds or mutual funds, investment tunds other than RRSP or RIF) Sell your financial assets (such as: ac acr, home or properties, art, jewels, antiques, etc.) Use an inheritance Rely on financial support from your extended family (including a spouse, pariner) Drawing an income from your own (or your spouse or pariner's) business Earnings from employment in retirement Other Taking all of the various sources of retirement income into account for your household (including government sources as well as personal and occupational pensions and provisions), how contident are you that your household income in retirement will give you the standard of living you hope for? Very confident Fairly confident Not at all confident Not at a confident Not at a confident Not at a confident Not at a co	RP_Q02	Which of the following sources of revenue are inclu	ided in your financial plan for retirement? Man	k all that apply.
Denefits Personal retirement savings plan benefits (RRSP, RSP) Obtaining a reverse mortgage Sell your financial assets (such as: stocks, bonds or mutual funds, investment funds other than RRSP or RIF) Sell your non-financial assets (such as: stocks, bonds or mutual funds, investment funds other than RRSP or RIF) Sell your non-financial assets (such as: a car, home or properties, art, jewels, antiques, etc.) Use an inheritance Rely on financial support from your extended family (including a spouse, partner) Drawing an income from your own (or your spouse or partner) Drawing an income from your own (or your spouse or partner) Drawing an income from your own (or your spouse or partner) Secures as well as personal and occupational persons and provisions), how confident are you that your household income in retirement will give you the standard of living you hope for? Very confident Fairy confident Not at all confident Not at all confident Don't know PC_001 In the past 12 months, did you make use of any advice, free or paid, on any of the following financial products? Where you retire? Yes No Don't know In the past 12 months, did you make use of any advice, free or paid, on any of the following financial products? Retirement planning Children's education planning (saving and investments fishalegies) No advice available or couldn't find any advice No, did not use any advice Don't know FC_002 Where did you get your advice? Ask respondent to list and mark number of sources listed. ENTER NUMBER None, no advice Now and well as advice and providence of your feel most influence Newspapers Radio or Television Internet Advice from a Financial Advisor Advice from a Financial Advisor Advice from a Financial Friend Other				
(RRSP, RSP) Obtaining a reverse mortgage Sell your financial assets (such as: stocks, bonds or mutual funds, investment funds other than RRSP or RIF) Sell your non-financial assets (such as: stocks, bonds or mutual funds, investment funds other than RRSP or RIF) Sell your non-financial assets (such as: a car, home or properties, art, jewels, antiques, etc.) Use an inheritance Rely on financial support from your extended family (including a spouse, partner) Drawing an income from your own (or your spouse or partner's) business Earnings from employment in retirement Other Taking all of the various sources of retirement income into account for your household (including government sources as well as personal and occupational pensions and provisions), how confident are you that your household income in retirement will give you the standard of hiving you hope for? Very confident Rep_cos Rep_cos To you have a good idea of how much money you will need to save to maintain your desired standard of living when you retire? Yes No Do you have a good idea of how much money you will need to save to maintain your desired standard of living when you retire? Yes No Don't know FC_cos In the past 12 months, did you make use of any advice, free or paid, on any of the following financial products? Retirement planning Children's education planning Estate planning This yearning Children's education planning Estate planning Children's education planning Estate planning Children's education planning Estate planning In the past 12 months, did you make use of any advice, free or paid, on any of the following financial products? Where did you get your advice? Ask respondent to its and mark number of sources listed. ENC_002 Where did you get your advice? Ask respondent to its and mark number of sources listed. ENTER NUMBER None, no advice				
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Advice from a knowledgeable friend Other				
Other				
Don't know				
			Don't know	

FC_Q05	Are there any things that you personally keep an e	ye on, such as changes in? Mark all that ap	ply	
		The housing market		
		The stock market		1
		The currency (money) market		1
		Interest rates		1
		Inflation		1
		Taxation		1
		The job market		
		Pension plans, and benefits		1
		Sales of consumer goods and services		1
		Other		1
		None of the above		
		Total number (Max 5)		-
FC_Q06	How do you tend to monitor these things? Mark all			
10_000	Thew do you terra to memor these things. Mark all	Newspapers		
				1
		Financial / business pages in newspapers		
		Financial magazines (Forbes, The Economist, Les Affaires)		
		Actualité, Times, Newsweek)		
		Radio and television business and financial programming		
		Internet (email, Web, text messaging,		
		newsfeeds, etc.)		
		Financial advisor		
		Other		
		Don't know		
FC_Q07	Could you please tell me which of the following typ			_
		Auto		
		Life		
		Disability		
		Loss of income (e.g. payment protection		
		insurance)		
		Property (home)		
		Renters (content)		
		Travel		
		Other		
		None of the above		
		Don't know		
FC_Q08	Do you have all your insurance policies with one co	ompany?		
		Yes		
		No		
		Don't know		
		No insurance		
FC_Q09	Do you currently have a will?			
		Yes		
		No		
		Don't know		
FC_Q10	Do you currently have powers of attorney drawn up	o for your household?		
		Yes		
		No		
		Don't know		
SA_Q01	How would you rate your level of financial knowled	ge?		_
		Very knowledgeable		
		Knowledgeable		
		Fairly knowledgeable		
		Not very knowledgeable		
		Don't know		
			-	

SA_Q02	How would you rate yourself on the following area	of financial management: keeping track of	money?
		Very good	
		Good	
		Fairly good	
		Not very good	
04 000	Harris del con contra con contra de la fallacción en contra	Don't know	-40
SA_Q03	How would you rate yourself on the following area		et?
		Very good	
		Good	
		Fairly good Not very good	
		Don't know	
04 004	How would you rate yourself on the following area		et the best
SA_Q04	financial product such as loans or insurance rates		
		Very good	
		Good	
		Fairly good	
		Not very good	
	The state of the falls	Don't know	
SA_Q05	How would you rate yourself on each of the follows financial issues?	ng areas of financial management: staying	informed on
	ililariciai issues?	Vany good	
		Very good Good	
		Fairly good	
		Not very good	
		Don't know	
04.040	Please tell me if you agree or disagree with the fol		orts of financial
SA_Q10	products that I need.	3 · · · · · · · · · · · · · · · · · · ·	
		Agree	
		Disagree	
		Don't know	
SA_Q11	Please tell me if you agree or disagree with the fol	lowing statement: I keep a close personal watc	h on my financial
υ <u>ν</u> _αιι	affairs.		
		Agree	
		Disagree	
		Don't know	
SA_Q12	Please tell me if you agree or disagree with the fol	lowing statement. I know enough about investr	nents to choose
	ones that are suitable for my circumstances.	_	
		Agree	
		Disagree	
		Don't know	
04.040	Please tell me if you agree or disagree with the fol		s thoroughly
SA_Q13	before making any financial decisions.	,	0)
		Agree	
		Disagree	
		-	
		Don't know	.,
	The next part of the interview is different. This section is But don't warm it is not a section to the section of the section		
OA_Q01	quiz. But don't worry it is not an exam. Have fun, a		
	the interest rate you get on your savings is 3%, will time?	i your savings have at least as much buying po	ower iii a year s
		N.	
		Yes	
		No	
		Don't know	
OA_Q02	A credit report is?		
		A list of your financial assets and liabilities	
		A monthly credit card statement	
		A loan and bill payment history	
		A credit line with a financial institution	
		Don't know	
OA_Q03	Who insures your stocks in the stock market?		
		The National Deposit Insurance Corporation	
		The Securities and Exchange Commission	
		The Bank of Canada	
		No one	
		Don't know	

OA_Q04	True or false. By using unit pricing at the grocery spackage size.	tore, you can easily compare the cost of any b	rand and any
	package size.	True	
		False	
		Don't know	
OA_Q05	If each of the following persons had the same amou		atest amount of
	me mearance.	A young single woman with two young	
		children	
		A young single woman without children An elderly retired man, with a wife who is	
		also retired	
		A young married man without children	
		Don't know	
OA_Q06	If you had a savings account at a bank, which of the that you would earn on this account?	e following statements would be correct conce	rning the interest
		Sales tax may be charged on the interest	
		that you earn	
		You cannot earn interest until you pass your 18th birthday	
		Earnings from savings account interest may	
		not be taxed	
		Income tax may be charged on the interest if your income is high enough.	
		Don't know	
OA_Q07	Inflation can cause difficulty in many ways. Which g	group would have the greatest problem during	periods of high
	inflation that lasts several years?	V 1: 1 30 131	
		Young working couples with no children	
		Young working couples with children	
		Older, working couples saving for retirement	
		Older people living on fixed retirement income Don't know	
OA_Q08	year and she needs all of the money she saved. W	loco by morning partition from plan to to clare a	university
OA_Q00	money?	_	
		Corporate bonds	
		Mutual Funds	
		A bank savings account	
		Locked in a safe at home	
		Stocks	
	140:1	Don't know	
OA_Q09	Which of the following types of investment would be event of a sudden increase in inflation?	est protect the purchasing power of a family's s	savings in the
		A twenty-five year corporate bond	
		A house financed with a fixed-rate mortgage	
		A 10-year bond issued by a corporation	
		A certificate of deposit at a bank	
	Hada the the the	Don't know	
OA_Q10	Under which of the following circumstances would now and repay it with future income?	ıt be tinancially beneticial to borrow money to b -	ouy something
		When something goes on sale	
		When the interest on the loan is greater than	
		the interest obtained from a savings account	
		When buying something on credit allows someone to get a much better paying job	
		It is always more beneficial to borrow money	
		to buy something now and repay it with future income	
		Don't know	

OA_Q11	Which of the following statements is not correct abo	out most ATM (Automated Teller Machine) card	ls?
	,	You can get cash anywhere in the world with	
		no fee	
		You must have a bank account to have an ATM card	
		You can generally get cash 24 hours-a-day	
		You can generally obtain information	
		concerning your bank balance at an ATM	
		machine	
		Don't know	
OA_Q12	Which of the following can hurt your credit rating?		
		Making late payments on loans and debts	
		Staying in one job too long	
		Living in the same location too long	
		Using your credit card frequently for	
		purchases	
04.040		Don't know	
OA_Q13	What can affect the amount of interest that you wo		
		Your credit rating	
		How much you borrow	
		How long you take to repay the loan	
		All of the above	
		Don't know	
OA_Q14	Which of the following will help lower the cost of a		
		Paying off the mortgage over a long period of	
		time	
		Agreeing to pay the current rate of interest on the mortgage for as many years as	
		possible	
		Making a larger down payment at the time of	
		purchase	
		Making a smaller down payment at the time of purchase	
		Don't know	

Appendix D: Recoded and Derived Variables

Quiz item	Text	Responses	Recodes	Comparison it	Text	Responses	Recodes
1MEM	Keeping up with financial obligations	Keeping up, no problems		OE_Q17	Keeping up with financial obligations	Keeping up, no problems	
		Keeping up, but struggle				Keeping up, but struggle	
		Real problems, falling behind				Real problems, falling behind	
		Don't know	No answer = Don't know			No bills or obligations	No bills or obligations = don't know
						Don't know	No answer = don't know
2MEM	In 12 months, behind on bill?	Yes		OE_Q14	In 12 months, behind on bill?	Yes	
		No				No	
		Don't know	No answer = Don't know			Don't know	No answer = don't know
2.1	Behind on rent or mortgage?	Yes		OE_Q15	Behind on rent or mortgage?	Yes	
		No				No	
		Don't know	No answer = Don't know			Don't know	No answer = don't know
2.2	Behind on loan payment?	Yes		OE_Q16	Behind on loan	Yes	
		No				No	
		Don't know	No answer = Don't know			Don't know	No answer = don't know
DERIVED 2MEM	Behind on major obligations		Yes or don't know on ALL	DER_BEHIND	Behind on major obligation		Yes or don't know on ALL
			Yes or DK on rent or mortgage +1				Yes or DK on rent or mortgage +1
			Yes or DK on rent or mortgage and NO				Yes or DK on rent or mortgage and NO
			Yes or DK on loan and bill				Yes or DK on loan and bill
			Yes or DK on loan or bill				Yes or DK on loan or bill
			No on all				No on all
ЗКТ	Have budget?	Yes		OE_Q11	Have budget?	Yes	
		No				No	
		Don't know				Don't know	No answer = don't know
3.1	Stay in budget?	Always		OE_Q12	Stay in budget?	Always	
		Usually				Usually	
		Rarely				Rarely	
		Never				Never	
		Don't know	No answer = Don't know			Don't know	
		No budget				No budget	No answer = don't know
DERIVED 3KT	Budget and in budget		DK Budget and DK Stay	DER_BUDGET	Budget and in budget		DK Budget and DK Stay
			No budget				No budget
			Budget and Never				Budget and Never
			Budget and Rarely				Budget and Rarely
			Budget and Usually				Budget and Usually
			Budget and Always				Budget and Always

4КТ	Frequency of checking account balance	Daily		OE_Q05	Check account(s)	Daily	
		Weekly				Weekly	
		Bi-weekly				Bi-weekly	
		Monthly				Monthly	
		Yearly				Yearly	
		Never				Never	
		Don't know	No answer = Don't know			Don't know	No answer = don't know
		No account				No account	
5KT	Keep close watch on personal finances	Agree		SA_Q11	Keep close watch on personal finances	Agree	
		Disagree				Disagree	
		Don't know	No answer = Don't know			Don't know	No answer = don't know
6PA	Planning ahead for retirement	Yes		RP_Q01	Planning ahead for retirement	Yes	
		No				No	
		Don't know	No answer = don't know			Don't know	No answer = don't know
		Already retired				Already retired	
6.1	Confidence about retirement	Very		RP_Q08	Confidence about retirement	Very	
		Fairly				Fairly	
		Not very				Not very	
		Not at all				Not at all	
						Don't know	
DERIVED 6PA	Planning and confidence in retirement		Yes or Already retired AND Very	DER_RPLAN	Planning and confidence		Yes or Already retired AND Very
			Yes or Already retired AND Fairly				Yes or Already retired AND Fairly
			Yes or Already retired AND Not very				Yes or Already retired AND Not very
			Yes or Already retired AND Not at all				Yes or Already retired AND Not at a
			No or Don't know AND Not at all				No or Don't know AND Not at all
			No or Don't know AND Not very				No or Don't know AND Not very
			No or Don't know AND Very or Fairly				No or Don't know AND Very or Fairl
7PA	Have a will	Yes		FC_Q09	Have will	Yes	
		No				No	
		Don't know	No answer = don't know			Don't know	No answer = don't know
7.1	Have insurance	Yes		FC_Q07	Have insurance	# of types 0-3	
		No				Don't know	No answer = Don't know
		Don't know	No answer = don't know				
DERIVED 7PA	Planning		Yes will AND Yes Insurance	DER_PLAN	Planning	Yes will AND Yes Insurance	
			Yes will AND No or DK Insurance			Yes will AND No or DK Insurance	e
			No or DK will AND Yes Insurance			No or DK will AND Yes Insurance	e
			No or DK Will AND No or DK Insurance			No or DK Will AND No or DK Ins	urance

8PA	Cover unexpected cost of 2 weeks	Use savings		FM_Q02	Cover \$500 expenditure	Use savings	
	· ·	Sell asset		IF INCOME<60K	· ·	Borrow from friend or relative	
		Borrow from friends or family				Use personal line of credit	
		Borrow from FI or credit				Use credit card	
		Pawnbroker payday lender				Sell asset	
		Couldn't cover				Got to pawnbroker or payday	lender
		Don't know	No answer = Don't know			Other	ichide.
						Couldn't cover	
						Don't know	No answer = don't know
				FM_Q03		2011 (1111011	The distriction of the districti
				=	Cover \$5000 expenditure	Use savings	
				II III COME > COM	Cover 45000 experience	Borrow from friend or relative	
						Use personal line of credit	
						Use credit card	
						Sell asset	
						Got to pawnbroker or payday	lender
						Other	
						Couldn't cover	
)CP	Clear idea of products	Agree		SA_Q10	Clear idea of products	Agree	
, C.	cical laca of products	Disagree		37_Q10	cical fact of products	Disagree	
		Don't know	No answer = Don't know			Don't know	No answer = don't know
.0CP	Research choices	Agree	No driswer – Borreknow	SA_Q13	Research choices	Agree	140 dilawer – doll't know
	nescaren enoices	Disagre		5A_Q15	nescuren enoices	Disagree	
		Don't know	No answer = Don't know			Don't know	No answer = don't know
L1SI	Follow financial topics	0-5 topics	No answer = 0	FC_Q05	Keep an eye on (mark all that apply)	20.1.1.1.1011	Count responses 0-5+, No answer = 0
L2SI	Taken course or program in 5 yrs?	Yes		DM_Q09	Taken course or program in 5yrs?	Yes	·
		No				No	
		Don't know	No answer = Don't know			Don't know	No answer = don't know
L3MEM	Rate on making ends meet	Very good		SA_Q03	Rate on making ends meet	Very good	
		Good				Good	
		Fairly good				Fairly good	
		Not very good				Not very good	
		Don't know	No answer = Don't know			Don't know	No answer = don't know
L4KT	Rate on keeping track	Very good		SA_Q02	Rate on keeping track	Very good	
	' -	Good				Good	
		Fairly good				Fairly good	
		Not very good				Not very good	
		Don't know				Don't know	No answer = don't know
15SI	Rate on staying informed	Very good		SA_Q05	Rate on staying informed	Very good	
		Good				Good	
		Fairly good				Fairly good	
		Not very good				Not very good	
						Don't know	No answer = don't know
		Don't know					
l6CP	Rate on chosing products	Very good		SA_Q04	Rate on chosing products	Very good	
L6CP	Rate on chosing products			SA_Q04	Rate on chosing products	Very good Good	
L6CP	Rate on chosing products	Very good		SA_Q04	Rate on chosing products	Good	
16CP	Rate on chosing products	Very good Good		SA_Q04	Rate on chosing products		